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In re Application of: Yoram REITER

Serial No.: 10/075,257 Filed: February 25, 2002

Office Action Mailing Date: August 30, 2007

Examiner: VANDERVEGT, F. P.

Group Art Unit: 1644 Attorney Docket: 02/23338

In the claims:

1-20. (Canceled)

- 21. (New) A method of producing MHC class I-antigenic peptide complexes comprising:
- (a) expressing in bacteria, a single chain MHC class I polypeptide comprising a functional mammalian β -2 microglobulin amino acid sequence covalently linked to a functional mammalian MHC class I heavy chain amino acid sequence; and
 - (b) isolating said single chain MHC class I polypeptide; and
- (c) refolding said single chain MHC class I polypeptide in a presence of an antigenic peptide capable of binding said single chain MHC class I polypeptide, so as to obtain a plurality of MHC class I-antigenic peptide complexes, said plurality of MHC class I-antigenic peptide complexes being identical and recognizable by one CTL clone.
 - 22. (New) The method of claim 21, further comprising the step of:
- (d) isolating said MHC class I-antigenic peptide complexes via size exclusion chromatography.
- 23. (New) The method of claim 21, wherein said antigenic peptide is coexpressed along with said single chain MHC class I polypeptide in said bacteria.
- 24. (New) The method of claim 21, wherein step (a) is effected such that said single chain MHC class I polypeptide forms inclusion bodies in said bacteria.
- 25. (New) The method of claim 23, wherein said antigenic peptide and said single chain MHC class I polypeptide form inclusion bodies in said bacteria.

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- 26. (New) The method of claim 24, wherein said step of isolating said polypeptide further includes denaturing said inclusion bodies so as to release protein molecules therefrom.
- 27. (New) The method of claim 26, wherein said antigenic peptide is coexpressed along with said single chain MHC class I polypeptide in said bacteria.
- 28. (New) The method of claim 21, wherein said mammalian β -2 microglobulin amino acid sequence is a human β -2 microglobulin amino acid sequence and further wherein said mammalian MHC class I heavy chain amino acid sequence is a human MHC class I heavy chain amino acid sequence.
- 29. (New) The method of claim 21, further comprising reduction of said single chain MHC class I polypeptide prior to step (c).
- 30. (New) The method of claim 21, wherein said refolding is effected under renaturation conditions.
- 31. (New) The method of claim 30, wherein said renaturation conditions comprise an oxidizing agent.
- 32. (New) The method of claim 30, wherein said renaturation conditions comprise an oxidized glutathione.
- 33. (New) The method of claim 32, wherein said renaturation conditions further comprise arginine.

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34. (New) The method of claim 31, wherein said renaturation conditions further comprise arginine.

35. (New) The method of claim 21, wherein said functional mammalian β -2 microglobulin amino acid sequence is covalently linked upstream of said functional mammalian MHC class I heavy chain amino acid sequence.